

Science and engineering profile: Utah

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	4,450	566,330	32
Doctoral engineers, 2003	1,120 *	118,540	27
S&E doctorates awarded, 2004	240	26,275	30
Life sciences (percent)	28	27	na
Engineering (percent)	24	22	na
Physical sciences (percent)	18	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	318	46,807	28
S&E and health graduate students in doctorate-granting institutions, 2003	5,455	507,247	28
Population, 2004 (thousands)	2,389	297,550	35
Civilian labor force, 2004 (thousands)	1,203	148,769	35
Personal income per capita, 2004 (dollars)	26,946	33,041	46
Federal spending			
Total expenditures, 2003 (millions of dollars)	13,500	2,024,246	38
R&D obligations, 2003 (millions of dollars)	650	91,359	27
Total R&D performance, 2003 (millions of dollars)	1,506	277,577	33
Industry R&D, 2003 (millions of dollars)	996	198,244	31
Academic R&D, 2003 (millions of dollars)	385	40,055	29
Life sciences (percent)	50	59	na
Engineering (percent)	29	15	na
Physical sciences (percent)	7	8	na
Number of SBIR awards, 1999–2004	296	31,847	25
Utility patents issued to state residents, 2004	683	84,268	25
Gross state product, 2004 (billions of dollars)	83	11,744	33

*Coefficient of variation greater than 10% but less than 25%; na = not applicable; S&E = science and engineering; SBIR = small business innovation research.

NOTES: Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Reliability of estimates of industry R&D and of doctoral scientists and engineers varies by state, because sample allocation was not based on geography. Rankings do not take into account the margin of error of estimates from sample surveys. Data on doctoral scientists and engineers include only recipients of doctoral degrees from U.S. institutions in S&E and health fields. The field percentages represent the largest three fields within the state.

Federal obligations for research and development, by agency and performer: Utah, FY 2003

(Thousands of dollars)

Agency	Total	Performer					State and local government	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	650,187	116,286	0	306,832	216,247	8,219	2,603	27
Department of Agriculture	22,156	14,657	0	0	7,499	0	0	34
Department of Commerce	426	70	0	0	356	0	0	48
Department of Defense	367,997	65,076	0	290,722	8,409	3,790	0	22
Department of Energy	11,360	103	0	3,370	7,887	0	0	32
Department of Health and Human Services	182,781	33,473	0	10,274	136,920	1,977	137	28
Department of the Interior	4,313	2,907	0	76	1,058	0	272	26
Department of Transportation	2,234	0	0	0	106	0	2,128	37
Environmental Protection Agency	1,312	0	0	225	1,021	0	66	34
National Aeronautics and Space Administration	28,724	0	0	1,055	25,631	2,038	0	19
National Science Foundation	28,884	0	0	1,110	27,360	414	0	26
Rank	27	31	na	21	27	36	38	na

FFRDC = federally funded research and development center.

na = not applicable.

NOTES: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 states, District of Columbia, and Puerto Rico.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources; see the section, Data Sources for Science and Engineering (S&E) State Profiles.